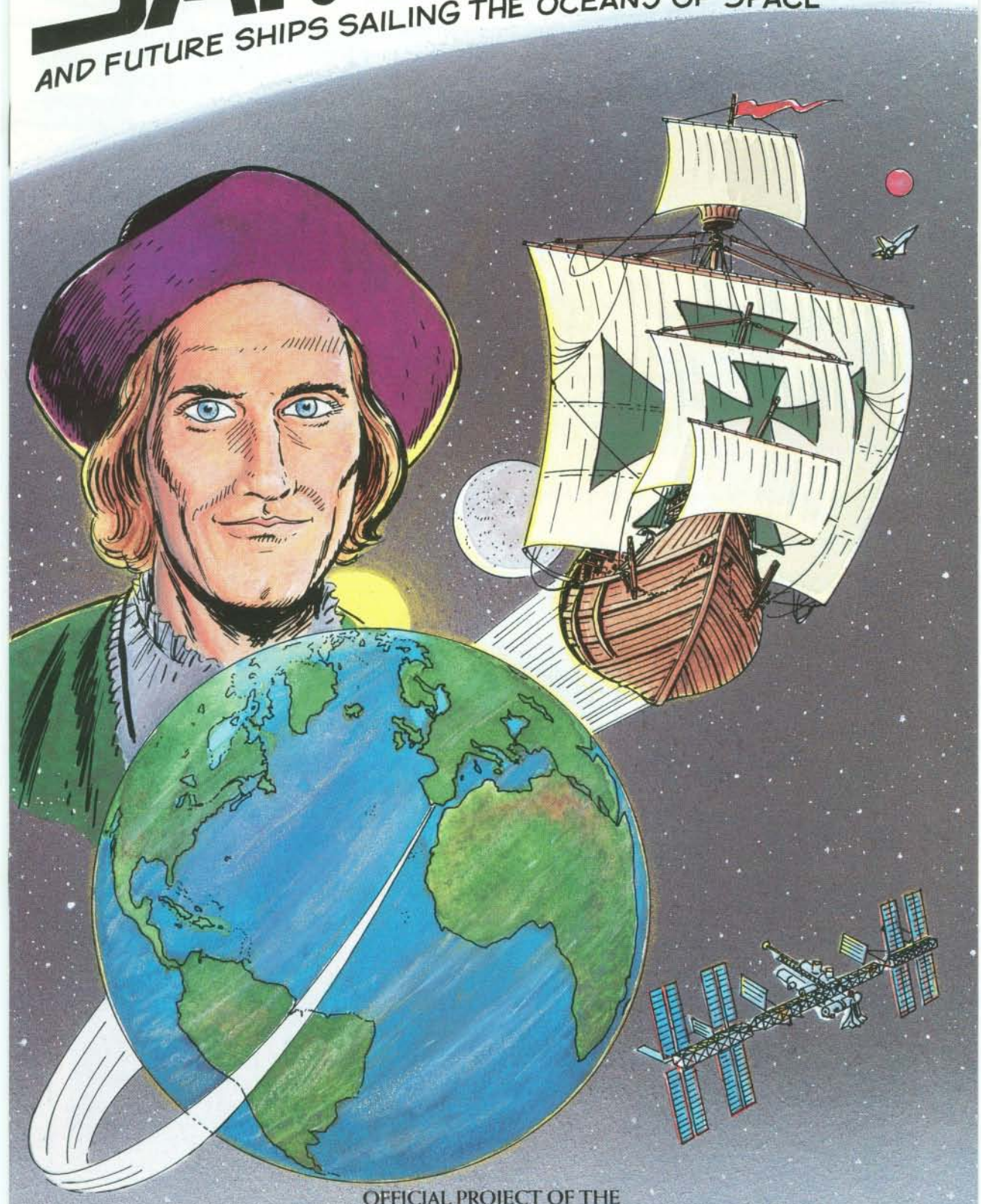
ADVENTURES ON SANTA MARÍA

AND FUTURE SHIPS SAILING THE OCEANS OF SPACE

ISY

CHRISTOPHER COLUMBUS 500 QUINCENTENARY JUBILEE



OFFICIAL PROJECT OF THE
CHRISTOPHER COLUMBUS QUINCENTENARY JUBILEE COMMISSION

ISY

CHRISTOPHER COLUMBUS

500

QUINCENTENARY JUBILEE

Hi Boys and Girls,

In 1492, Columbus did more than just "sail the ocean blue," although after 500 years, that's all we seem to remember. In the year 1992 we celebrate his great beginning of the era of exploration and discovery of the New World by "remembering." We can learn a lot about ourselves, our world and about the last frontier, outer space, by remembering. We can also learn a lot about "dreaming." Just as Christopher dreamed about opening a new trade route to the Far East, we can dream about a clean and beautiful Earth, about other space routes to Mars and colonization of our neighbor, the moon.

Our cruise ship for this journey of remembrance will be Columbus' flagship: the "Santa María." We shall sail on her and other ships sailing the vast oceans of space. We will learn more than history; we will learn about drive and ambition, joy and disappointment, risk versus gain, discovery from exploration, and even about some things we should avoid, like ignorance, superstition and greed. We shall learn about life - both good and bad!

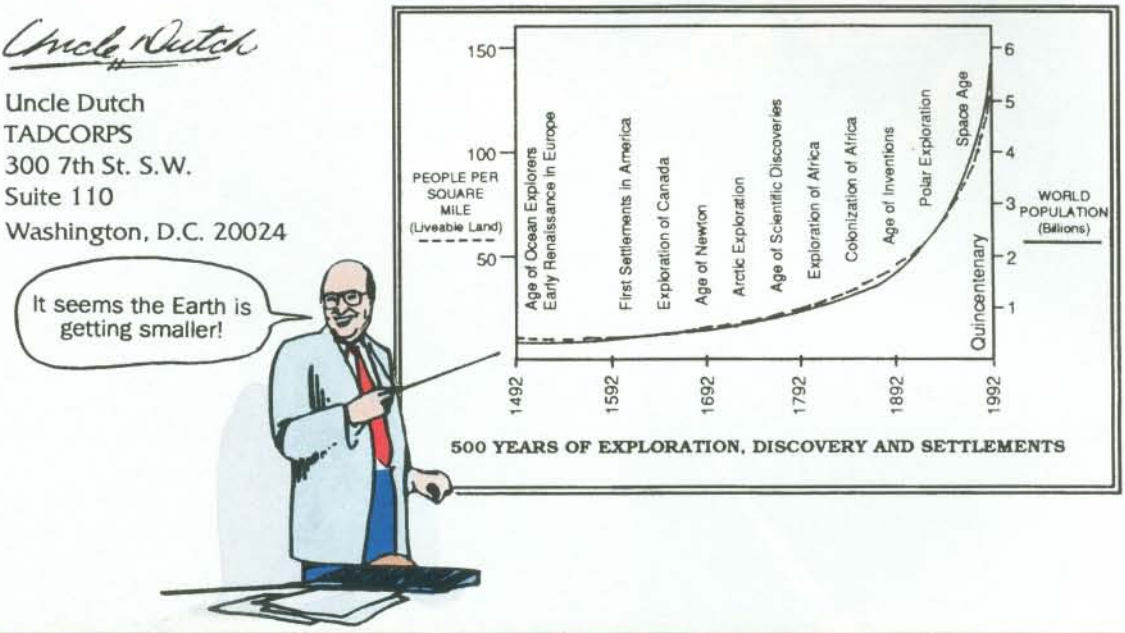
There is still much to discover about our own planet Earth. There are now 14 people on Earth for every one living during Columbus' time. Mother Earth is suffering from what humankind has done during these past 500 years and especially during the past 50 years. Only global understanding and cooperation will enable us to save our planet and explore others for you, our children and grandchildren.

Welcome aboard and hang on for an exciting voyage across time!

"Spaceally" yours,

Uncle Dutch

Uncle Dutch
TADCORPS
300 7th St. S.W.
Suite 110
Washington, D.C. 20024



ADVENTURES ON SANTA MARÍA
(And Future Ships Sailing the Oceans of Space)

Created by **Manfred "Dutch" von Ehrenfried** of TADCORPS, 300 7th St. S.W., Suite 110, Washington,D.C. 20024. Produced by **Custom Comic Services,** Educational and Promotional Comic Books, P.O. Box 726, Glenside, PA 19038. Artwork by **Mike Roy.** Copyright© 1991 Custom Comic Services. All rights reserved. Printed in the United States of America. To order copies, please call (202) 554-8677 or Fax (202) 863-0265. See order form on back cover. Call for information.

GENOA, ITALY, 1464

WELCOME HOME, CHRISTOFORO COLUMBO.

WHAT DID YOU BRING US FROM YOUR TRAVELS?

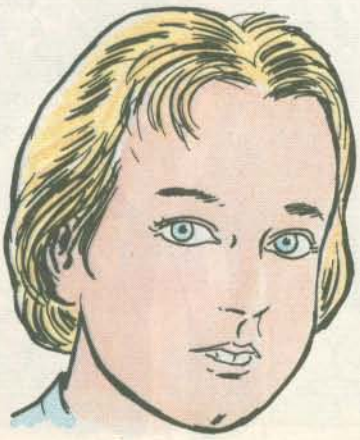
HERE'S AN ORANGE FROM MADEIRA. NOW RUN AND TELL MY FAMILY I'M HOME.

CHRISTOPHER COLUMBUS ALWAY LOVED TO EXPLORE THE WORLD. HE FIRST WENT TO SEA AT AGE 10.

COLUMBUS PROBABLY SAILED TO THESE PLACES BEFORE HE WAS 25: THE MEDITERRANEAN SEA AS A YOUTH, NORTH TO ENGLAND AND POSSIBLY ICELAND, THE AFRICAN COAST AND ISLANDS AS FAR SOUTH AS GUINEA.

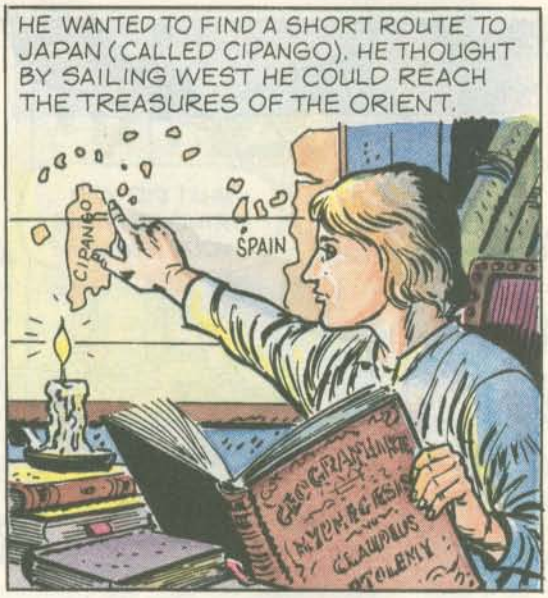
HE WAS BORN "CHRISTOFORO" AROUND 1451 TO DOMENICO AND SUSANNA COLUMBO. HE LIVED WITH HIS THREE BROTHERS AND A SISTER IN GENOA WHICH IS NOW IN ITALY.

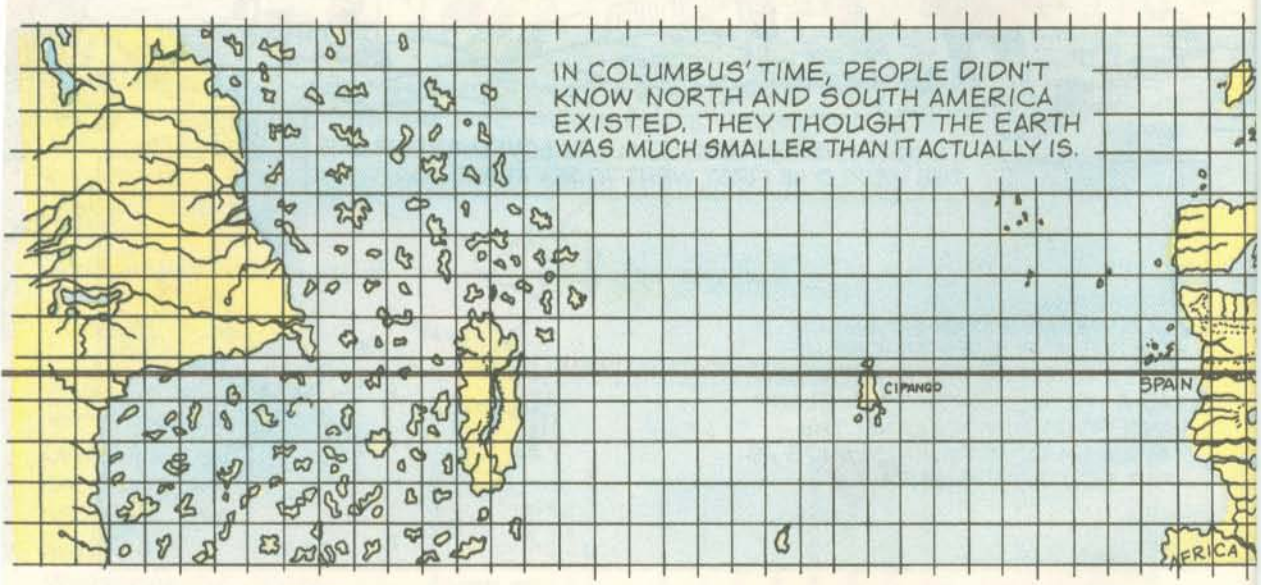
AS COLUMBUS TRAVELED, HE SAW MANY NEW AND EXCITING THINGS. HE WANTED TO LEARN MORE ABOUT THE WORLD.



HE WAS INTERESTED IN GEOGRAPHY AND MAPS AS A YOUTH AND LATER BECAME A MAP MAKER WITH HIS BROTHER BARTHOLOMEW.

COLUMBUS SERVED AS A SAILOR ON GENOESE AND FLEMISH SHIPS.

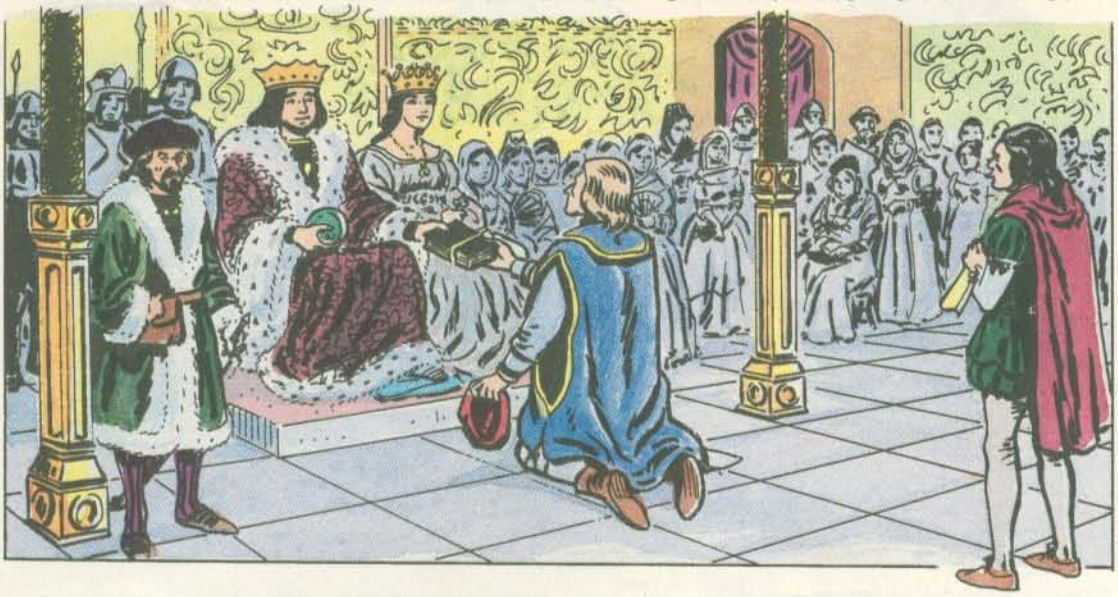

HE WANTED TO FIND A SHORT ROUTE TO JAPAN (CALLED CIPANGO). HE THOUGHT BY SAILING WEST HE COULD REACH THE TREASURES OF THE ORIENT.
CIPANGO
SPAIN


IN COLUMBUS' TIME, PEOPLE DIDN'T KNOW NORTH AND SOUTH AMERICA EXISTED. THEY THOUGHT THE EARTH WAS MUCH SMALLER THAN IT ACTUALLY IS.
CIPANGO
SPAIN

HE COMBINED ALL THAT HE HAD LEARNED TO PLAN HIS NEW ROUTE TO THE ORIENT.

HE NEEDED MONEY, SHIPS AND A CREW TO TEST HIS IDEA. HE PROPOSED HIS VOYAGE TO ROYALTY ACROSS EUROPE. AT FIRST, THEY ALL REJECTED HIS IDEA.

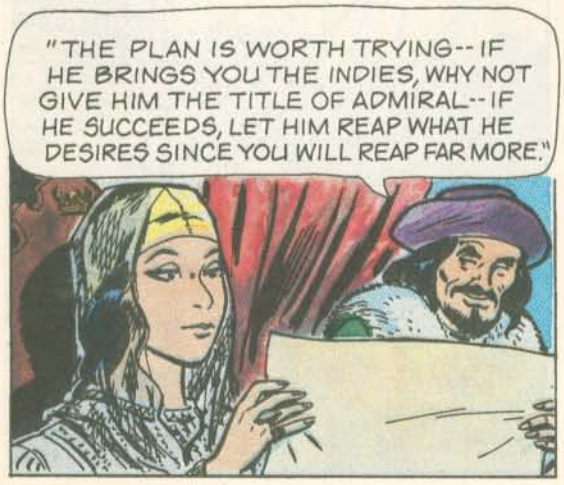
FROM 1486 TO 1492, AT LEAST THREE PEOPLE BESIDES COLUMBUS IN THE COURT OF KING FERDINAND AND QUEEN ISABEL HAD PRESENTED HIS REQUEST FOR SUPPORT TO OUTFIT A VOYAGE TO THE WEST TO DISCOVER A NEW ROUTE TO THE RICHES OF THE EAST.



HIS REQUESTS WERE TURNED DOWN AGAIN AND AGAIN.

BUT COLUMBUS KEPT TRYING. HE MADE MANY SACRIFICES BUT HE NEVER GAVE UP. HE CONVINCED LUIS DE SANTANGEL, MINISTER OF THE BUDGET, TO PRESENT HIS CASE ONCE MORE TO QUEEN ISABEL OF SPAIN.

SANTANGEL CHANGED THE QUEEN'S MIND AND CONVINCED HER TO SUPPORT COLUMBUS' VOYAGE.



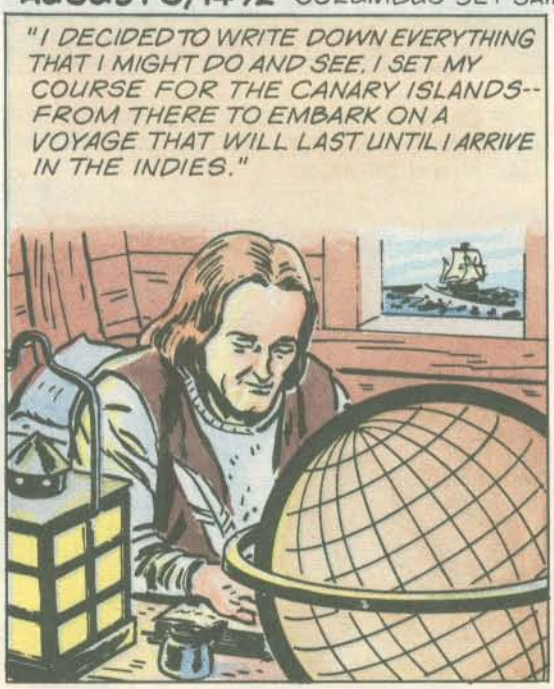
THE QUEEN'S MESSENGER BROUGHT THE NEWS TO COLUMBUS. AFTER SIX YEARS HE HAD FINALLY WON!

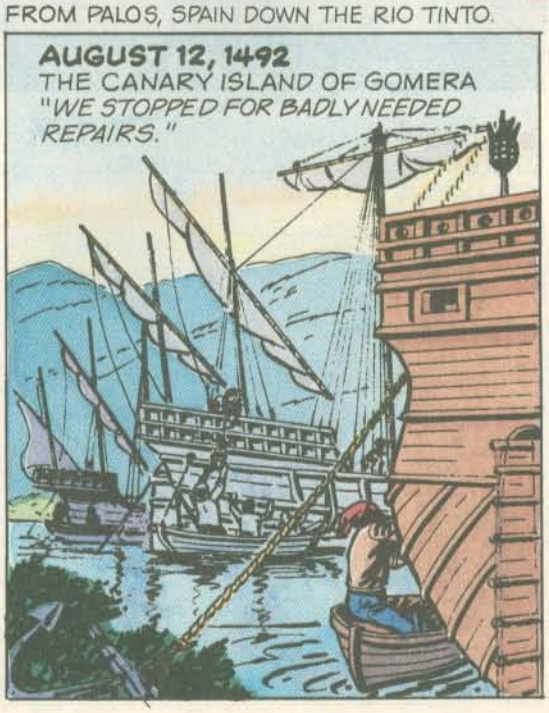
CHRISTOPHER COLUMBUS
CAPTAIN GENERAL
OF THE SANTA MARÍA

VINCENTE YAÑEZ PINZÒN
CAPTAIN OF THE NIÑA

MARTÌN ALONSO PINZÒN
CAPTAIN OF THE PINTA

AUGUST 3, 1492 COLUMBUS SET SAIL FROM PALOS, SPAIN DOWN THE RIO TINTO.





AUGUST 24, 1492 SAILING PAST THE CANARY ISLAND OF TENERIFE *"THE GREAT VOLCANO ERUPTED IN A FIERY DISPLAY. I CALMED THE CREW BY TELLING THEM OF OTHER VOLCANOES I HAVE OBSERVED."*

COLUMBUS HAD MANY PLANS FOR HIS VOYAGE.

BUT NOTHING COULD PREPARE HIS CREW OF ABOUT 90 MEN (40 ON THE SANTA MARÍA) FOR THEIR JOURNEY INTO THE UNKNOWN.

COLUMBUS' CREW GREW NERVOUS AS THEY DREW FURTHER FROM LAND.

SEPTEMBER 25, 1492
MARTIN PINZÓN, CAPTAIN OF THE PINTA, GAVE THE SIGNAL THAT LAND WAS SEEN. WHEN THE CREW LEARNED IT WAS ONLY A FALSE ALARM, THEY WERE VERY DISAPPOINTED.

OCTOBER 7, 1492 NORTH OF THE TURKS AND CAICOS ISLANDS.
"THE CREW GRUMBLED AND COMPLAINED-I REPROACHED THEM FOR THEIR LACK OF SPIRIT BUT CHEERED THEM ON."

COLUMBUS MET THE LUCAYAN NATIVES OF THE ISLAND. THEY CALLED THE ISLAND "GUANAHANI."

"THEY ARE VERY WELL BUILT PEOPLE WITH HANDSOME BODIES -- WELL PROPORTIONED. SOME ARE PAINTED -- THEY ARE FRIENDLY."

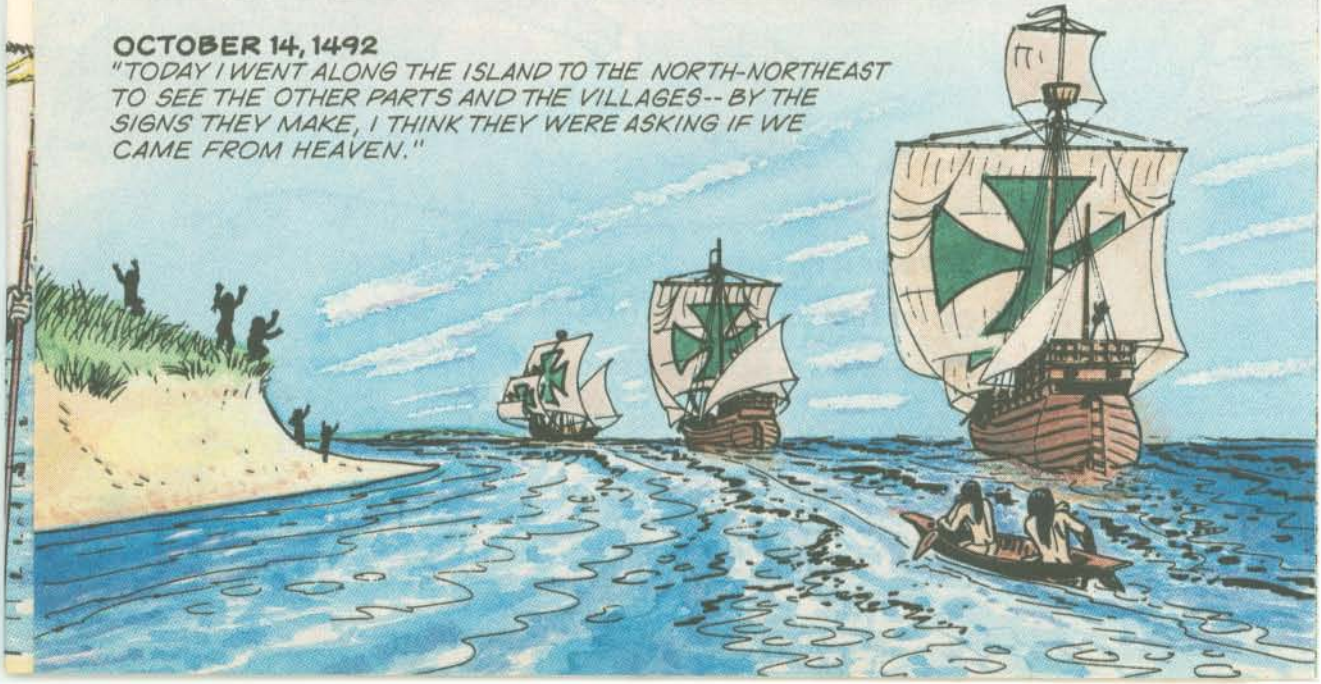
THE NEXT MORNING

"THEY CAME TO THE SHIP IN BOATS FASHIONED IN ONE PIECE FROM TRUNKS OF TREES."

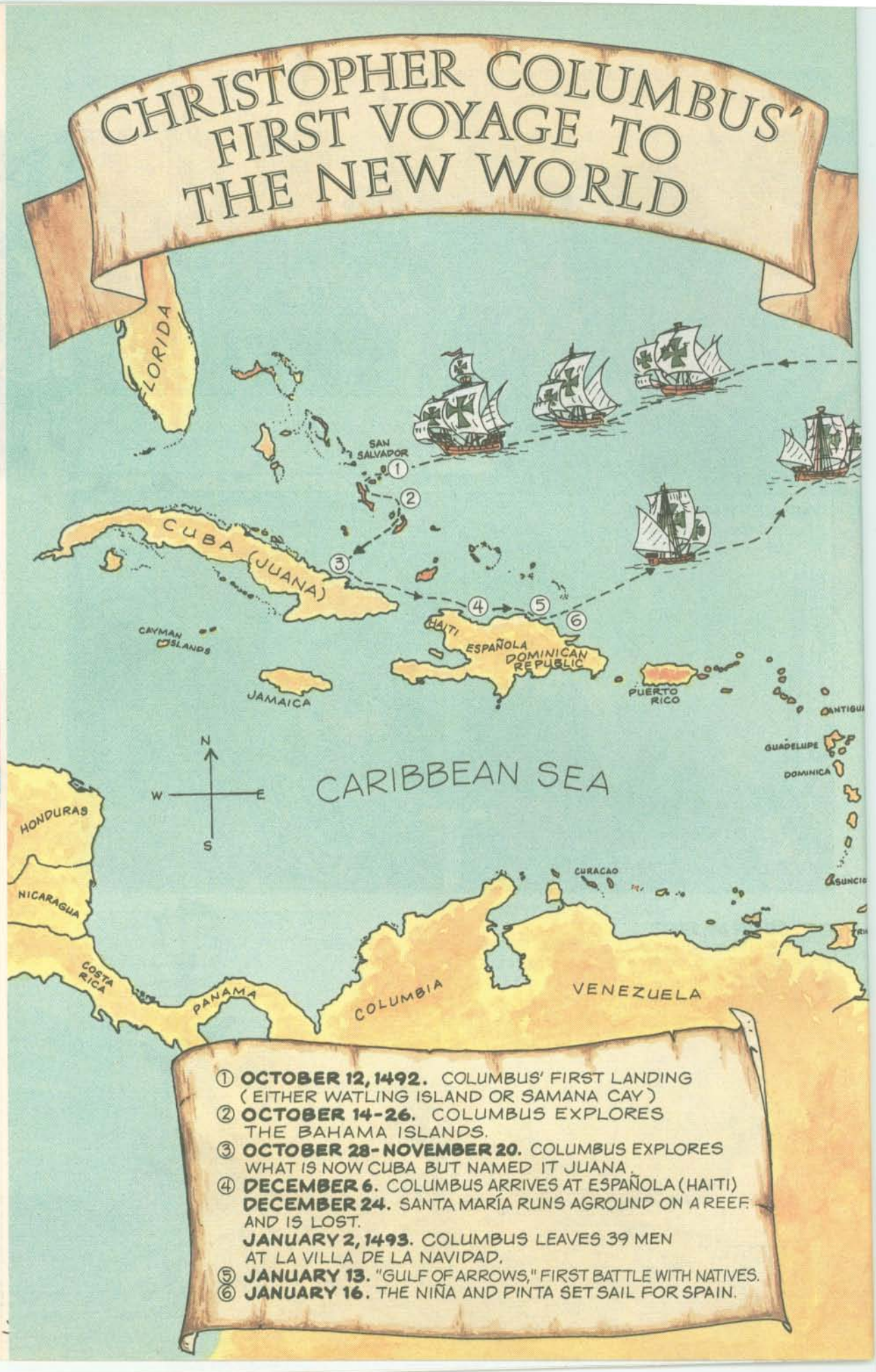
"THEY HAVE SO LITTLE TO GIVE BUT WILL GIVE IT ALL FOR WHATEVER WE GIVE THEM."

OCTOBER 14, 1492

"TODAY I WENT ALONG THE ISLAND TO THE NORTH-NORTHEAST TO SEE THE OTHER PARTS AND THE VILLAGES -- BY THE SIGNS THEY MAKE, I THINK THEY WERE ASKING IF WE CAME FROM HEAVEN."



CHRISTOPHER COLUMBUS' FIRST VOYAGE TO THE NEW WORLD



① **OCTOBER 12, 1492.** COLUMBUS' FIRST LANDING (EITHER WATLING ISLAND OR SAMANA CAY)

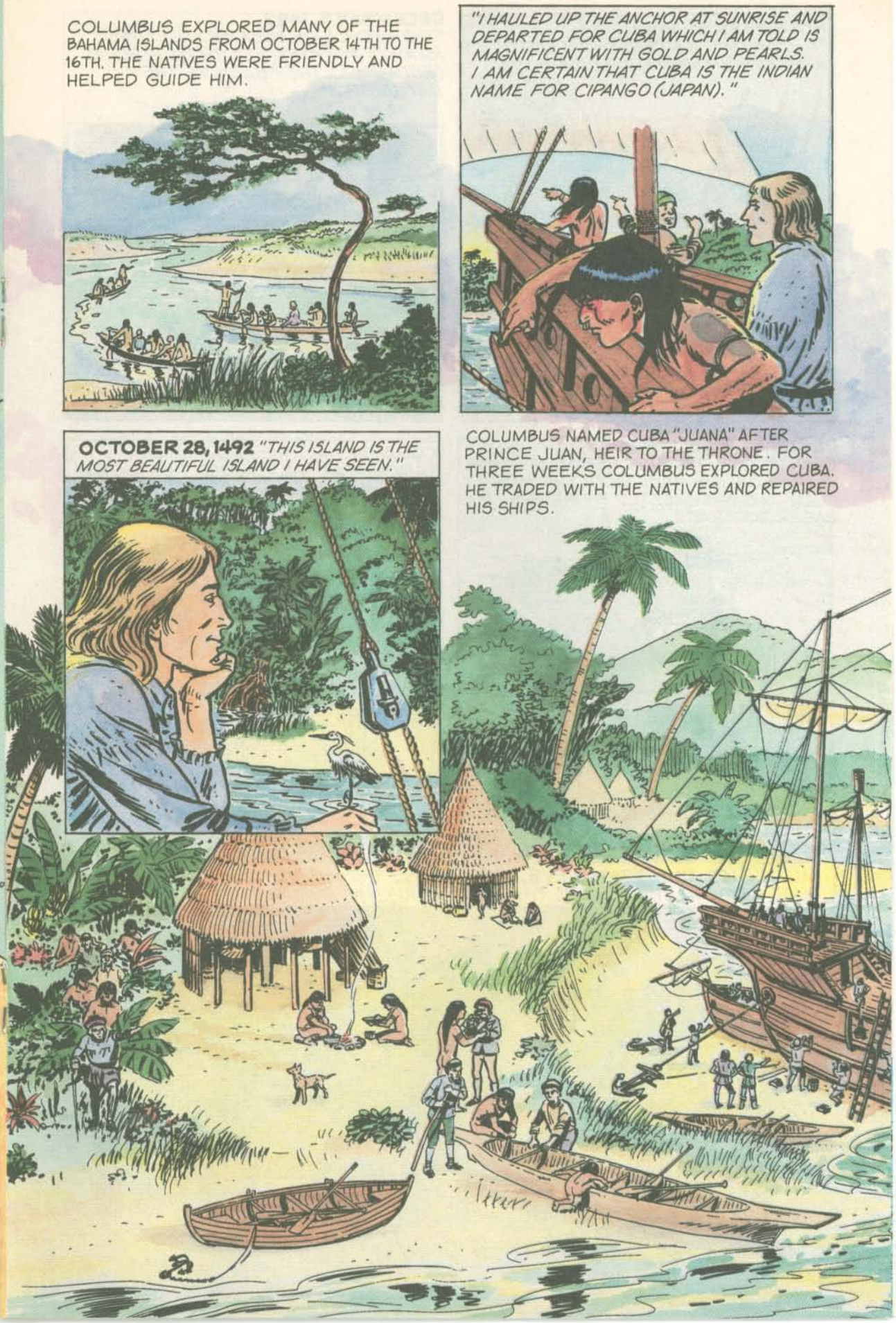
② **OCTOBER 14-26.** COLUMBUS EXPLORES THE BAHAMA ISLANDS.

③ **OCTOBER 28-NOVEMBER 20.** COLUMBUS EXPLORES WHAT IS NOW CUBA BUT NAMED IT JUANA.

④ **DECEMBER 6.** COLUMBUS ARRIVES AT ESPAÑOLA (HAITI)
DECEMBER 24. SANTA MARÍA RUNS AGROUND ON A REEF AND IS LOST.
JANUARY 2, 1493. COLUMBUS LEAVES 39 MEN AT LA VILLA DE LA NAVIDAD.

⑤ **JANUARY 13.** "GULF OF ARROWS," FIRST BATTLE WITH NATIVES.

⑥ **JANUARY 16.** THE NIÑA AND PINTA SET SAIL FOR SPAIN.

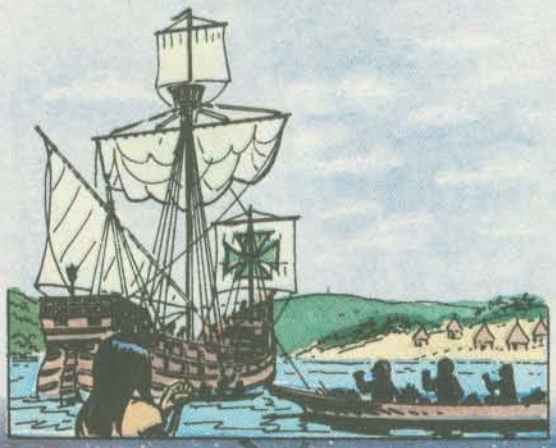

COLUMBUS EXPLORED MANY OF THE BAHAMA ISLANDS FROM OCTOBER 14TH TO THE 16TH. THE NATIVES WERE FRIENDLY AND HELPED GUIDE HIM.
"I HAULED UP THE ANCHOR AT SUNRISE AND DEPARTED FOR CUBA WHICH I AM TOLD IS MAGNIFICENT WITH GOLD AND PEARLS. I AM CERTAIN THAT CUBA IS THE INDIAN NAME FOR CIPANGO (JAPAN)."
OCTOBER 28, 1492 "THIS ISLAND IS THE MOST BEAUTIFUL ISLAND I HAVE SEEN."
COLUMBUS NAMED CUBA "JUANA" AFTER PRINCE JUAN, HEIR TO THE THRONE. FOR THREE WEEKS COLUMBUS EXPLORED CUBA. HE TRADED WITH THE NATIVES AND REPAIRED HIS SHIPS.

NOVEMBER 21, 1492
"THIS DAY MARTIN ALONZO PINZÒN SAILED AWAY WITHOUT MY WILL OR COMMAND."

THE CAPTAIN OF THE PINTA RACED AHEAD, HOPING TO FIND GOLD ON THE ISLAND COLUMBUS NAMED ESPAÑOLA.

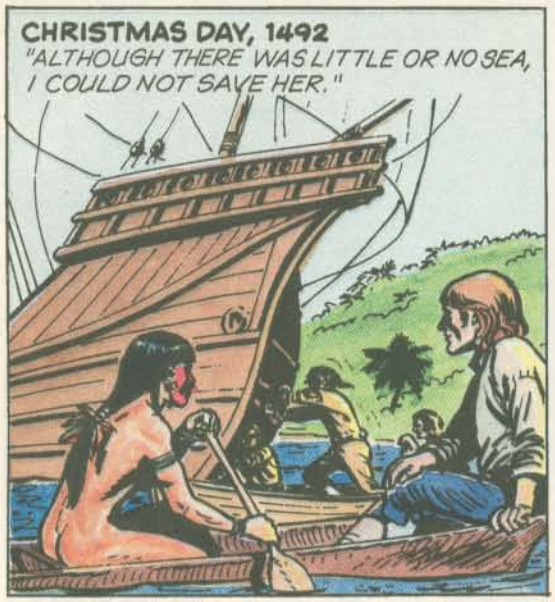
DECEMBER 5, 1492
"THE PEOPLE OF CUBA AND THE OTHER ISLANDS ARE AFRAID OF THOSE IN BOHIO (ESPAÑOLA). THEY BELIEVE THEY EAT PEOPLE."

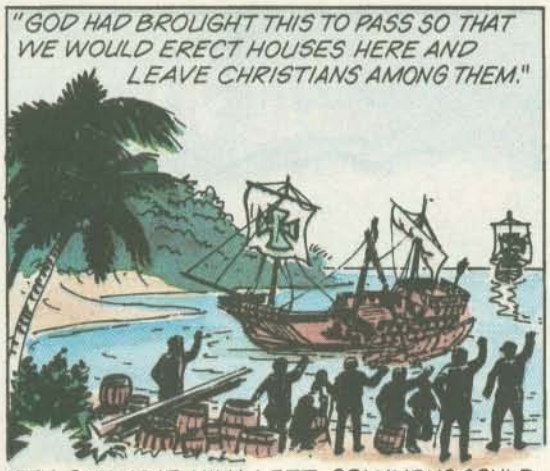
DECEMBER 23, 1492
COLUMBUS ARRIVED IN ESPAÑOLA AT WHAT IS NOW ACUL BAY. INSTEAD OF CANNIBALS, COLUMBUS WAS GREETED BY INDIANS EAGER TO TRADE.



COLUMBUS MET THE INDIAN CHIEF, GUACANAGARI. HE REALIZED THIS WAS NOT JAPAN, WHERE HE HAD HOPED TO FIND GOLD. INSTEAD, HE HAD FOUND NEW LANDS WITH THEIR OWN RICHES.

MIDNIGHT, CHRISTMAS EVE, 1492 WHILE THE ENTIRE CREW SLEPT WITH JUST A BOY AT THE TILLER, THE SANTA MARÍA RAN AGROUND ON A REEF.

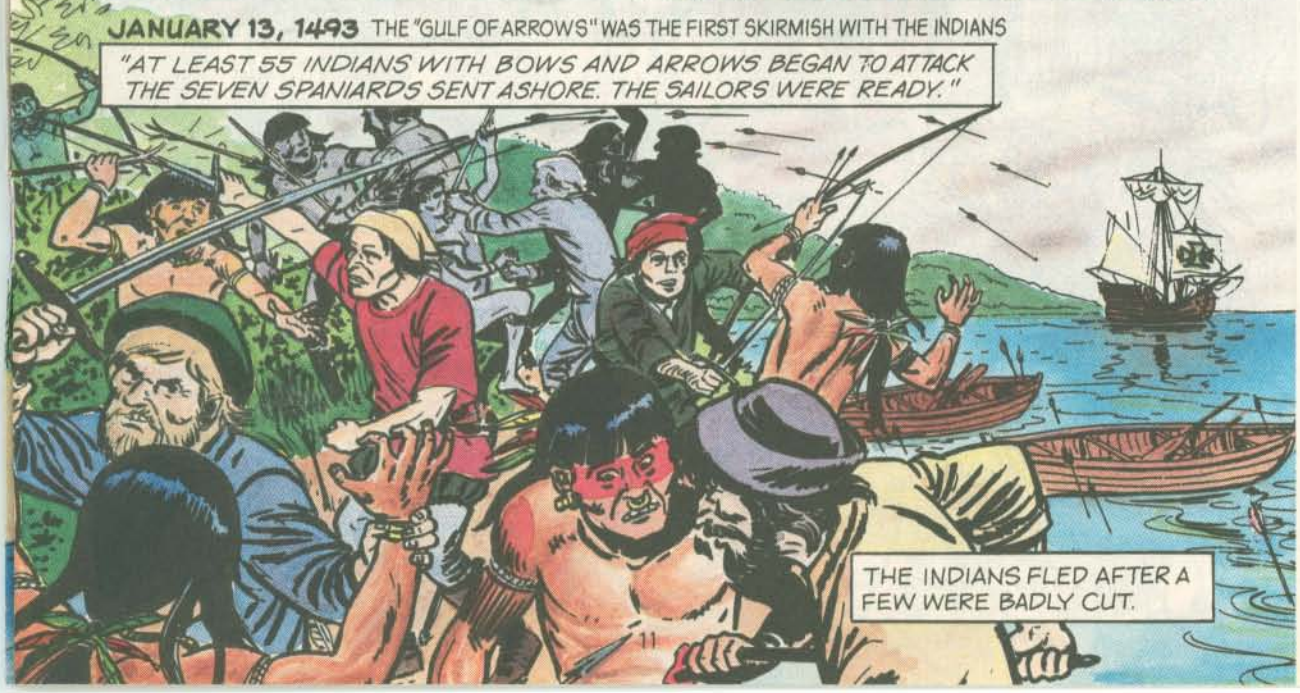




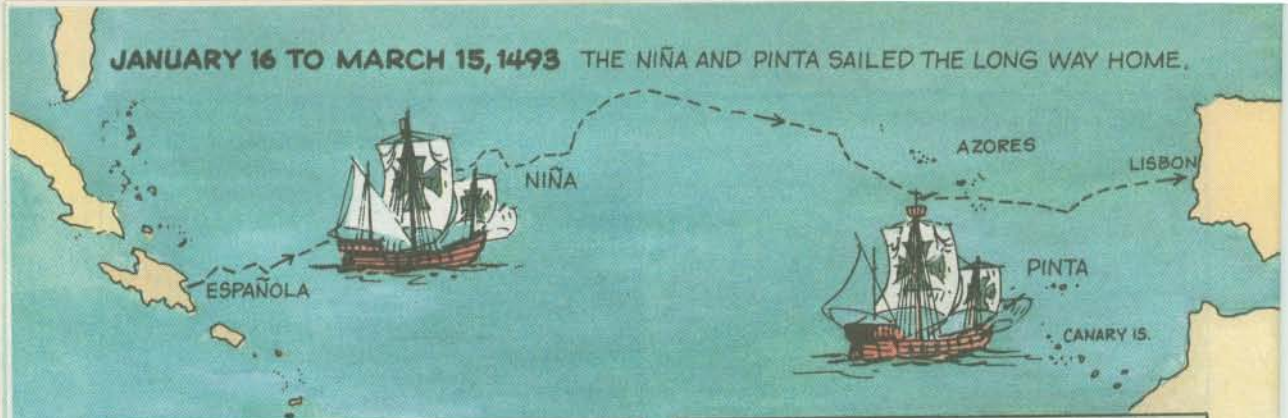
WITH ONLY THE NINA LEFT, COLUMBUS COULD NOT HOPE TO MAKE THE RETURN TRIP WITH ALL THE MEN. HE LEFT ABOUT 39 MEN WITH SUPPLIES FROM THE SANTA MARÍA AT A SETTLEMENT THEY CALLED LA VILLA DE LA NAVIDAD.

COLUMBUS LEFT DIEGO DE ARANA DE CORDOBA IN CHARGE AND GAVE THE MEN STRICT RULES ABOUT LIVING ON THE ISLAND WITH THE NATIVES.

JANUARY 13, 1493 THE "GULF OF ARROWS" WAS THE FIRST SKIRMISH WITH THE INDIANS



JANUARY 16 TO MARCH 15, 1493 THE NIÑA AND PINTA SAILED THE LONG WAY HOME.



FEBRUARY 12, 1493
NEAR THE AZORE ISLAND OF FLORES, A FIERCE STORM MADE COLUMBUS FEAR HE AND HIS SHIPS WOULD NEVER RETURN TO SPAIN. HE PLACED A MESSAGE IN A CASK AND THREW IT OVERBOARD.

MARCH 4, 1493
AFTER ANOTHER FIERCE STORM, THE NIÑA LIMPED INTO LISBON HARBOR.

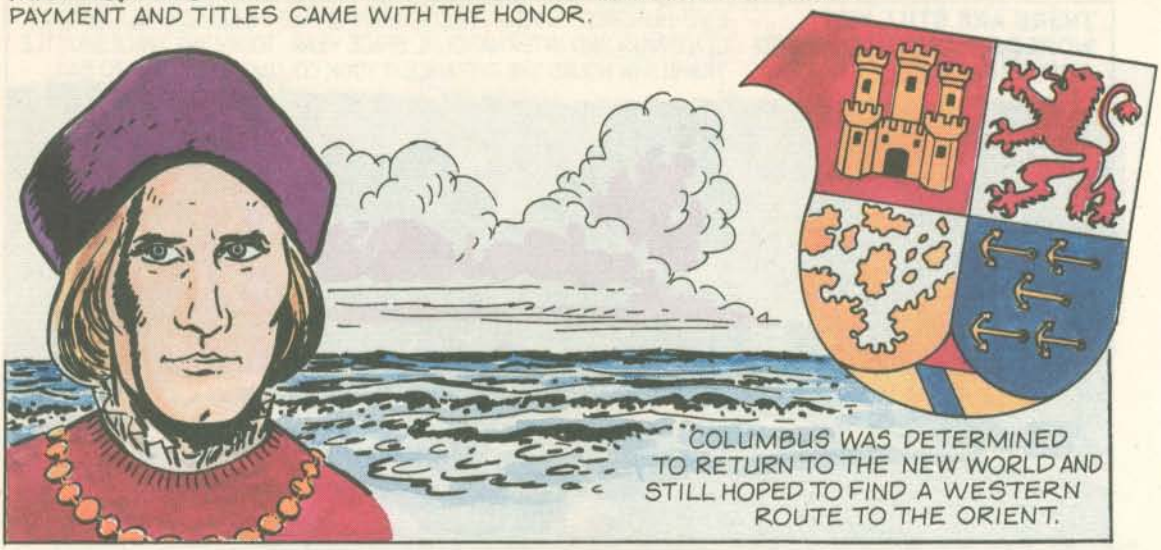
MARCH 15, 1493
THE NIÑA MET THE PINTA AT PALOS, SPAIN. THEY HAD BOTH ARRIVED HOME SAFELY.

APRIL 30, 1493 BARCELONA, SPAIN
KING FERDINAND AND QUEEN ISABEL RECEIVED COLUMBUS AND HIS GIFTS FROM THE NEW WORLD. COURT RECORDS SAY "ALL EYES WERE FILLED WITH TEARS OF INDESCRIBABLE JOY."

NOW SPAIN WOULD GET CREDIT FOR COLUMBUS' DISCOVERIES. THOSE WHO HAD EARLIER REFUSED TO HELP COLUMBUS WERE NOT PLEASED, LIKE KING JOHN II OF PORTUGAL.

OH MAN OF LITTLE UNDERSTANDING! WHY DID YOU LET SUCH ENTERPRISE FALL FROM YOUR HANDS?

MAY 23, 1493 COLUMBUS WAS AWARDED HIS OWN COAT-OF-ARMS. PAYMENT AND TITLES CAME WITH THE HONOR.



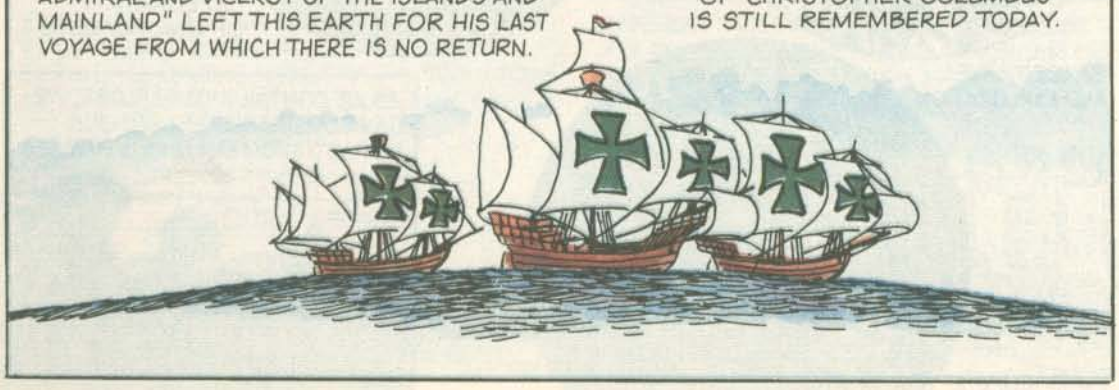
COLUMBUS MADE THREE MORE VOYAGES. HE DISCOVERED PUERTO RICO AND OTHER CARRIBEAN ISLANDS, CENTRAL AND SOUTH AMERICA. HIS JOURNEYS OPENED THE NEW WORLD FOR MANY EXPLORERS.

COLUMBUS' LATER VOYAGES

- **SEPTEMBER 25, 1493 TO JUNE 11, 1496** FIRST PERMANENT SETTLEMENT OF EUROPEANS IN THE NEW WORLD.
- **MAY 30, 1498 TO OCTOBER 31, 1500** DISCOVERED SOUTH AMERICA, BUT COLUMBUS CAME HOME IN CHAINS.
- **MAY 9, 1502 TO NOVEMBER 7, 1504** DISCOVERED CENTRAL AMERICA.

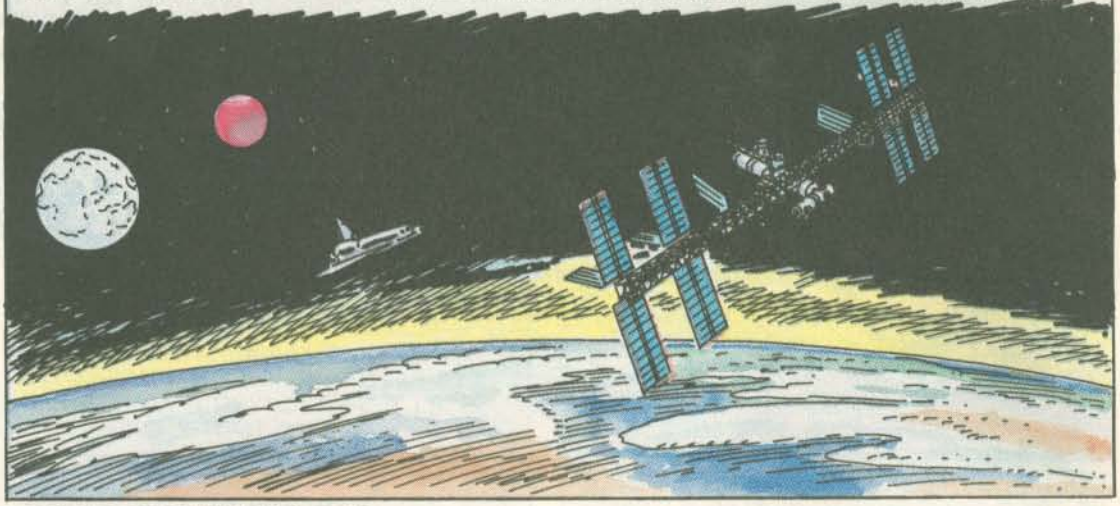
MAY 20, 1506
THE "VERY MAGNIFICENT LORD DON CRISTOBAL, ADMIRAL AND VICEROY OF THE ISLANDS AND MAINLAND" LEFT THIS EARTH FOR HIS LAST VOYAGE FROM WHICH THERE IS NO RETURN.

THE COURAGE AND DETERMINATION OF CHRISTOPHER COLUMBUS IS STILL REMEMBERED TODAY.

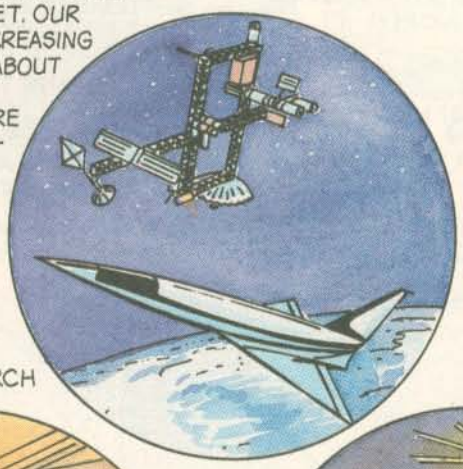


THERE ARE STILL NEW WORLDS TO BE DISCOVERED AND EXPLORED.

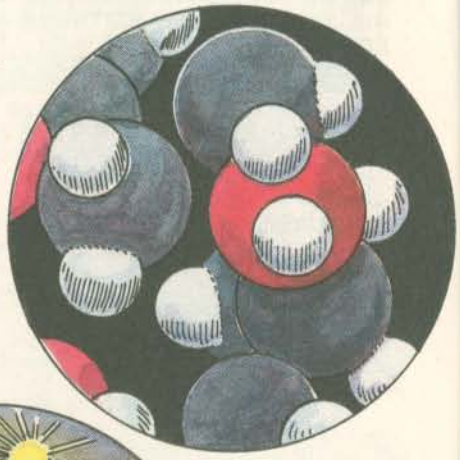
FIVE-HUNDRED YEARS AFTER COLUMBUS' VOYAGE WE CELEBRATE THE QUIN-CENTENARY AND INTERNATIONAL SPACE YEAR. TODAY, THE SPACE SHUTTLE TRAVELS IN HOURS THE DISTANCE IT TOOK COLUMBUS MONTHS TO SAIL.



TODAY, PEOPLE HAVE EXPLORED MOST OF OUR PLANET. OUR FRONTIERS KEEP INCREASING AS WE LEARN MORE ABOUT EARTH AND SPACE. FOR EXAMPLE, WE'RE LEARNING ABOUT---

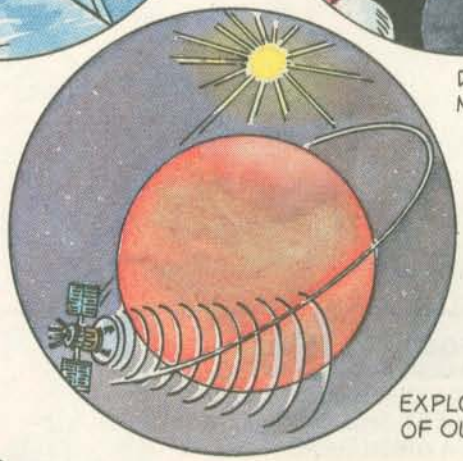


AERONAUTICAL RESEARCH



DISCOVERY OF NEW MEDICINES

SPACE TRAVEL AND EXPLORATION



EXPLORATION OF OUR PLANETS

ENVIRONMENTAL MANAGEMENT

AS WE CONTINUE TO EXPLORE, WE CAN REMEMBER THE LESSONS LEARNED FROM COLUMBUS' VOYAGES.

COLUMBUS MADE CAREFUL PLANS FOR HIS TRAVELS. HIS SHIPS HAD TO BE MAINTAINED AND REPAIRED FOR THE CREWS' SURVIVAL.

COLUMBUS' TRIP WAS HAMPERED BY HIS LACK OF KNOWLEDGE OF WEATHER AND SEA CONDITIONS.

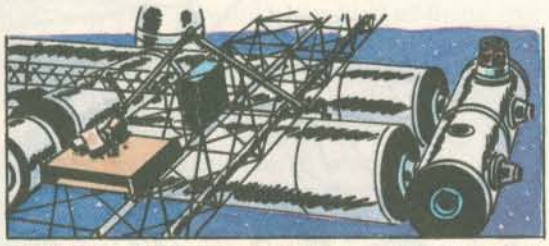
"THE WINDS REMAIN CONTRARY AND I AM UNABLE TO DEPART."

COLUMBUS SAILED IN THREE SHIPS. WHEN THE SANTA MARIA WAS LOST, HE COULD STILL RETURN IN THE NIÑA.

COLUMBUS KEPT A LOG OF HIS TRAVELS, BUT HE DID NOT HAVE ACCURATE CLOCKS OR INSTRUMENTS TO MEASURE HIS EXACT LOCATION OR SPEED.

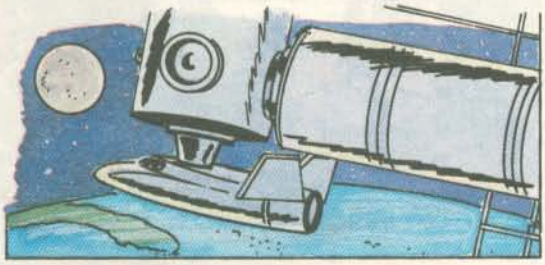
COLUMBUS' LANDING IN THE NEW WORLD PRODUCED A CLASH OF TWO VASTLY DIFFERENT CULTURES RESULTING IN THOUSANDS OF DEATHS FROM BOTH DISEASE AND GREED.

FUTURE EXPLORERS MUST HAVE SPACECRAFT THAT ARE CAREFULLY DESIGNED AND BUILT. THEIR LONG TERM MISSIONS WILL REQUIRE MAINTENANCE, PERHAPS BY ROBOTS.



FUTURE EXPLORERS WILL NEED TO LEARN MORE ABOUT CONDITIONS IN DEEP SPACE TO MAKE THEIR TRAVELS SAFER.

SPACE STATION FREEDOM WILL HAVE AN "ASSURED CREW RETURN VEHICLE" FOR AN EMERGENCY RETURN TO EARTH.



FUTURE ASTRONAUTS WILL NAVIGATE MUCH MORE ACCURATELY. THEY MUST BE BETTER PREPARED TO RECORD THEIR DISCOVERIES AND DATA FROM THEIR EXPLORATIONS AND EXPERIMENTS.

DIFFERENT RACES AND CULTURES MUST LEARN TO LIVE AND WORK TOGETHER IN PEACE. DISEASES MUST BE CONQUERED INSTEAD OF PEOPLE.

DO YOU HAVE THE QUALITIES OF A CHRISTOPHER COLUMBUS?
REMEMBER, COLUMBUS BELIEVED IN HIS IDEAS.
HE READ A LOT AND STUDIED HARD TO LEARN MORE.
IN SPITE OF FRUSTRATION AND SETBACKS, HE CONTINUED TO WORK TOWARD HIS GOAL.
BE PREPARE
FIVE-HUNDRED YEARS AGO, COLUMBUS DISCOVERED THE NEW WORLD. TODAY, WE ARE DISCOVERING THE WORLDS OF THE ATOM, DNA, GENES, PLANETS AND GALAXIES. WHICH WORLD WILL YOU HELP DISCOVER?
NASA
MIKE TROY

Dear Parents and Educators,

In the course of conducting the research for this educational comic book, I was amazed to discover that many of the lessons learned from Columbus' four voyages are applicable to today's world. Although we live in a wondrous age of science and technology with a standard of living that would be the envy of King Ferdinand and Queen Isabel, let alone the common person of Europe in 1492, we still suffer from the problems of mankind. Since there are now 14 people for every one then, it's no wonder our problems seem so numerous and complex.

No matter what the subject, your child could learn valuable lessons about life by studying about Columbus during this Quincentenary Year of the Discovery of the New World, which is also called the International Space Year (ISY) by the world space community. The following are just a few examples of suggested topics for home and classroom discussions and activities:

Geography, Cartography and History

Have the students compare the known world of 1492 to their present world. Have them take a world map and cut out North and South America and push the remaining parts closer together to see how Europeans of the time viewed the world. Get copies of the November 1975 and 1986 *National Geographic* and *Columbus* by Björn Landström. Review Erastosthenes' experiment and read about Ptolemy, Behaim, Waldseemüller and Mercator. This will demonstrate how rapidly knowledge spread once new discoveries were made. Then, have the students look at modern satellite images and realize that this new way of looking at the Earth has just recently occurred. Then switch to a map of Mars and look at their eyes sparkle! You can see the gears in their brains turning!

Mathematics and Astronomy

Have the students learn about "dead reckoning" and "vectors" in the context of Columbus' first voyage. You can couple this with a little astronomy by reviewing how Columbus used the stars and instruments to navigate. Get a copy of *The Log of Christopher Columbus* by Professor Robert Fuson and see if you can follow Columbus' courses from one place to another. Throw in the mathematics of degrees, minutes and seconds and discuss nautical standards of that era versus today. Then, for the more advanced student, study the mathematics of spaceflight trajectories. Compare the Santa María's speed with that of the Space Shuttle. Compare Columbus' total distance traveled to that of an Apollo flight to the moon or even a trip to Mars.

Anthropology and Ethnology

The more advanced students may wish to study the state of the Lucayan (Taino-Arawak) and other Indian tribes in the Caribbean during this period and today. They suffered a horrible fate as a result of the Spanish lust for gold, the introduction of European diseases such as smallpox and measles and the impact of European colonization. Of the estimated 250,000 natives on Española in 1492, only 500 remained 50 years later. We can even learn from tragedy.

Biology and the Environment

Columbus was not educated in this field and had difficulty recognizing new species of plants and animals. The students can research ajes (yams), tapioca, and manioc. He also saw dogs that did not bark and six foot iguanas. Have the students compare European and American plants and animals and discuss extinct species. Have them study the widespread concern about long-term changes in the environment of our planet and coordinated efforts to observe and save it.

Other areas for study include:

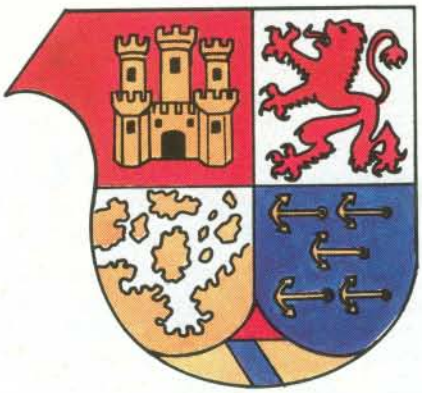
- Religion - The Christians, Jews and Moslems of the period were in great conflict as they still are to this day. Columbus and Isabel wanted to fund a new crusade to the Holy Land with gold from the Indies.
- Medicine - The spread and control of diseases among nations and planets.
- Politics - The Portuguese, Spanish, French and Genoese societies of the period.

As you can see from these few examples, the entire school year could be spent studying every class subject using a Columbus perspective or theme. This teaching approach may add a new spark of "learning by remembering" during this 500th Anniversary of Columbus.

"Spaceally" yours,

Uncle Dutch

ISY



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